

FORM PTO-1449
(REV. 7-85)U.S. DEPARTMENT OF COMMERCE
PATENT AND TRADEMARK OFFICEATTY. DOCKET NO.
33314
APPLICATION NO.**INFORMATION DISCLOSURE CITATION**

(Use several sheets if necessary)

APPLICANT
WINDISCH ET AL.
FILING DATE
FEBRUARY 13, 2006

Group

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE
	AA	5,710,027	1/20/98	Hauptmann et, al			
	AB	2003/0026805	2/6/03	Athwal et, al.			
	AC	5,648,237	7/15/97	Paul J. Carter			
	AD	4,680,262	7/14/87	Bochner et, al.			
	AE	2004/151695	8/5/04	Kwon et al.			
	AF						
	AG						
	AH						
	AI						
	AJ						
	AK						
	AL						

FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	OFFICE	CLASS	SUBCLASS	TRANSLATION	
							YES	NO
	AM	WO 89/00201	1/12/89	University of Dundee			<input type="checkbox"/>	<input type="checkbox"/>
	AN	WO 03/004599	1/16/03	Insight strategy & Mkt Ltd			<input type="checkbox"/>	<input type="checkbox"/>
	AO	EP 0 974 654	1/26/00	Mitsui Chemicals Inc			<input type="checkbox"/>	<input type="checkbox"/>
	AP	WO 01/57217	8/9/01	Choi Ki Doo et al.			<input type="checkbox"/>	<input type="checkbox"/>
	AQ						<input type="checkbox"/>	<input type="checkbox"/>

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent pages, Etc.)

	AR	BOURDINEAUD J P ET AL: "Cytoplasmic and Periplasmic Expression of a Synthetic gene for Ferredoxin in Escherichia-coli", Biochimie (Paris), vii,72, no. 6-7, 1990, pages 407-415, XP002316190		
	AS	WEICKERT M J ET, AL: "Optimization of Heterologous Protein Production in Escherichia Coli", Current opinion in Biotechnology. London, GB, Vol. 7, no. 5, 1996, pages 494-499, XP000995157		
	AT	HUMPHREYS D P ET AL:"High- LEVEL Periplasmic Expression in Escherichia coli Using a Eukaryotic Signal Peptide: Importance of Codon usage at the 5' end of the coding sequence" Protein expression and purification academic press, San Diego, CA, US, Vol. 20, no.2, November 2000, pgs		
EXAMINER		/Sandra Weger/	DATE CONSIDERED	08/11/2008

*EXAMINER: Initial of reference considered, whether or not citation is in conformance with MPEP 509: Draw a line through citation if not in conformance and not considered. Include a copy of this form with the next communication to applicant.

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DA	MATSUDA A ET AL: "Molecular Cloning and Structure of the Gene for 7-beta-4 Carboxybutanamidocephalosporanic-acid acylase from a pseudomonas strain", Journal of Bacteriology, vol. 163, no. 3, 1985, pages 1222-1228, XP002316191
DB	FRENCH C ET AL: "Development of a simple method for the recovery of recombinant proteins from the escherichia coli periplasm" Enzyme and Microbial Technology, Stoneham, MA, US, Vol. 19, no. 5, 1996, pages 332-338, XP000886796
DC	DALMORA S ET AL: "Analysis of recombinant human growth hormone directly in osmotic shock fluids" Journal of Chromatography A, Elsevier Science, NL., Vol. s 782, no. 2, 10 October 1997, pages 199-210, XP004096275
DD	ANDERSON D C ET AL: "Production technologies for monoclonal antibodies and their fragments", Current opinion in Biotechnology, Vol 15, No. 5, October 2004, Pages 456-462
DE	DE OLIVEIRA J E ET AL: "High-yield purification of biosynthetic human growth hormone secreted in Escherichia coli periplasmic space" Journal of Chromatography A, Elsevier Science, NL. Vol. 852, no. 2 13, Aug 1999, pgs 441-450
DF	HANNIG G ET AL: "Strategies for optimizing heterologous protein expression in Escherichia coli", Trends in Biotechnology, Vol. 16, no. 2, February 1998, pages 54-60, XP004107042
DG	MIDDLEBERG A P J: "Process-scale disruption of microorganisms" Biotechnology Advances, Vol. 13, no. 3 1995, pages 491-551, XP004045404
DH	BANEYX F: Recombinant protein expression in Escherichia coli" current opinion in Biotechnology, vol 10, no. 5, October 1999, pgs 411-421, XP001041299
DI	HART R A ET AL: "Large scale, in situ isolation of periplasmic IGF-I from E. Coli", Bio Technology, Vol. 12, November 1994, pages 1113-1117, XP001153305
DJ	
DK	
DL	
DM	
DN	

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/Sandra Wegert/

DATE CONSIDERED

08/11/2008

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